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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
03/30/2004	John F. Boylan	ACSES-63439	5142	
590 03/22/2006		EXAM	INER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			HILL, GENEVIEVE A L	
RK AVENUE, NW		ART UNIT	PAPER NUMBER	
N, DC 20001-4413	3	3738		
	03/30/2004 590 03/22/2006 HENDERSON, FARA	03/30/2004 John F. Boylan 590 03/22/2006 HENDERSON, FARABOW, GARRETT & DUNNER RK AVENUE, NW	03/30/2004 John F. Boylan ACSES-63439  590 03/22/2006 EXAM HENDERSON, FARABOW, GARRETT & DUNNER HILL, GENE  RK AVENUE, NW	

DATE MAILED: 03/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			E		
		Application No.	Applicant(s)		
Office Action Summary		10/814,326	BOYLAN ET AL.		
		Examiner	Art Unit		
		Genevieve A-L. Hill	3738		
Period fo	- The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAINS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing end patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tin  rill apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)🖾	Responsive to communication(s) filed on 09 Ja	nuary 2006.			
• —	This action is FINAL. 2b) This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Dispositi	ion of Claims				
4)⊠	Claim(s) <u>29-77</u> is/are pending in the application.				
	4a) Of the above claim(s) is/are withdrav	vn from consideration.			
5)	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>29-40,42-64 and 69-75</u> is/are rejected.				
7)⊠	Claim(s) <u>41,65-68,76 and 77</u> is/are objected to.				
8)□	Claim(s) are subject to restriction and/or election requirement.				
Applicat	ion Papers				
9)[	The specification is objected to by the Examine	r.			
10)🛛	The drawing(s) filed on 30 March 2004 is/are: a	a)⊠ accepted or b)⊡ objected t	o by the Examiner.		
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).		
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).		
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.		
Priority (	under 35 U.S.C. § 119				
•	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).		
	1. Certified copies of the priority documents				
	2. Certified copies of the priority documents				
	3. Copies of the certified copies of the prior		ed in this National Stage		
	application from the International Bureau	•	. <b>.</b>		
* 5	See the attached detailed Office action for a list	of the certified copies not receive	ed.		

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 10/5/05.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) X Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Attachment(s)

5) Notice of Informal Patent Application (PTO-152)

4) Interview Summary (PTO-413) Paper No(s)/Mail Date. \_\_\_\_

6) Other: \_\_\_

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#### **DETAILED ACTION**

### Claim Objections

1. Claims 29-77 are objected to because of the following informalities:

"Pd" should read -palladium- or -palladium (Pd)--

"Pt" should read -platinum- or -platinum (Pt)-

"W" should read -tungsten- or --tungsten (W)--

"NiTi" should read -nickel-titanium- or -nickel-titanium (NiTi)--

Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 29-30, 36-39, 42-46, 53-55, and 69-75 are rejected under 35 U.S.C. 102(e) as being anticipated by Burmeister et al (US Patent 6582461). For claims 29-30, 43-46, and 53-55, Burmeister et al disclose a tubular stent 30 composed of Ni-Ti alloy that includes additional elements such as platinum, palladium, gold, silver,

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a non-superelastic phase.

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or niobium (column 2, paragraph 5). Referring to claims 36, 42, 53, 69, and 70 the stent 30 has a superelastic layer 32 (column 5, line 51) that reaches the austenitic phase at body temperature in Figure 4a. Referring to claims 37 and 43, they also teach a stent 30 with a non-superelastic layer 34 as shown in Figure 4b. The reference highlights in Figure 2 the superelastic area; therefore, any point outside that boxed area would be in

For claims 38-39, since the invention is made from the same materials, it is inherently MRI compatible and radiopaque. For claims 73-75, Burmeister et al show that the alloy may also contain small amounts of other elements and can therefore inherently be a quaternary element (column 2, line 39).

3. Claims 29-40, 42-64, and 69-72 are rejected under 35 U.S.C. 102(e) as being anticipated by Boylan et al (US Patent 6572646).

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another." or by an appropriate showing under 37 CFR 1.131.

For claims 29-30, 43-46, 53-55, and 61-64, Boylan et al disclose a stent 10 with a tubular body having struts (column 5, paragraph 1) made from a nickel-titanium alloy that includes a ternary element of either palladium or platinum (column 3, paragraph 5).

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Referring to claims 31-32, 34, 47-48, 50, 56-57, 59, and 61, the composition can contain up to 10% of a ternary element (column 8, line 45), which therefore falls between 5-70%. For claims 33, 35, 49, 51, 58, and 60, the composition can *optionally* contain 3% of platinum or palladium (column 8, line 51) and therefore falls within the claimed ranges. For claim 52, the ternary element can also include up to 10% of tungsten (column 3, line 53).

Regarding claims 36, 53, and 61, the stent 10 is made from a superelastic material (column 3, line 49). For claims 38-40 and 61, the invention has radiopaque markers (column 4, line 19) and since it's made from the same materials, it is inherently MRI compatible. For claims 42 and 69-72, the stent goes into the austenitic phase at body temperature (column 3, lines 58-60). For claims 37, 43, and 63, since the stent reaches the austenitic phase at body temperature, it becomes superelastic at that point as mentioned in the previous reference (Burmeister et al). Therefore, for temperatures outside that phase, the stent will be in a non-superelastic phase.

### Allowable Subject Matter

4. Claims 41, 65-68, 76-77 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Genevieve A-L. Hill whose telephone number is (571) 272-7226. The examiner can normally be reached on Monday through Friday from 9:00am to 5:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on 571-272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**GAH** 

David H. Willse Primary Examiner